

ABSTRACT

Methods and apparatus for reducing phase jitter in a multi-tone, e.g., OFDM, receiver are described. A jitter compensation filter is used to process a received signal following timing recovery and/or channel compensation to reduce and/or eliminate the effect of phase jitter.

Jitter compensation filter tap weights are updated after filtering the received signal based on one or more signal error measurements. The same received signal is filtered using the updated filter, and error measurements generated from the filtered signal are used to once again update the filter's tap weights. After a fixed number of filter update cycles and/or some other filter updating stop criterion being satisfied, the filter updating process is stopped and the filtered signal is used, e.g., supplied to additional receiver circuitry. The filter tap values may be reset for each block of data, with the filter update process being repeated starting from preselected initial tap weight values.